



Annual Report 2024

Tables and Figures

*Australian and New Zealand Islet
and Pancreas Transplant Registry*

Table 1.1

Referral activity in Australia for the last three years



Referral activity	Patients (n)		
	2021	2022	2023
Active on list at beginning of year	86	112	110
<i>Added to active list during the year</i>	72	59	60
<i>Removed from active list during year</i>	9	13	8
<i>Pancreas transplants to patients on waiting list</i>	34	45	42
<i>Kidney only transplants to patients on waiting list</i>	3	2	1
<i>Transplants performed outside Australia/New Zealand</i>	0	0	0
<i>Died while active on list</i>	0	1	4
On active waiting list at the end of year	112	110	115
Died within 12 months of removal from list	0	0	0

Table 1.1 (continued)

Waitlist activity in Australia for the last three years



Waitlist activity	Patients (n)		
	2021	2022	2023
Under consideration (not yet active on list) at beginning of year	174	151	146
<i>New referrals during the year</i>	56	62	61
<i>Added to active list during the year</i>	72	59	60
<i>Declined for pancreas transplantation</i>	2	7	6
<i>Died while under consideration</i>	5	1	4
Under consideration (not yet active on list) at end of year	151	146	137

Figure 1.1

Distribution of people active on the waiting list by residence

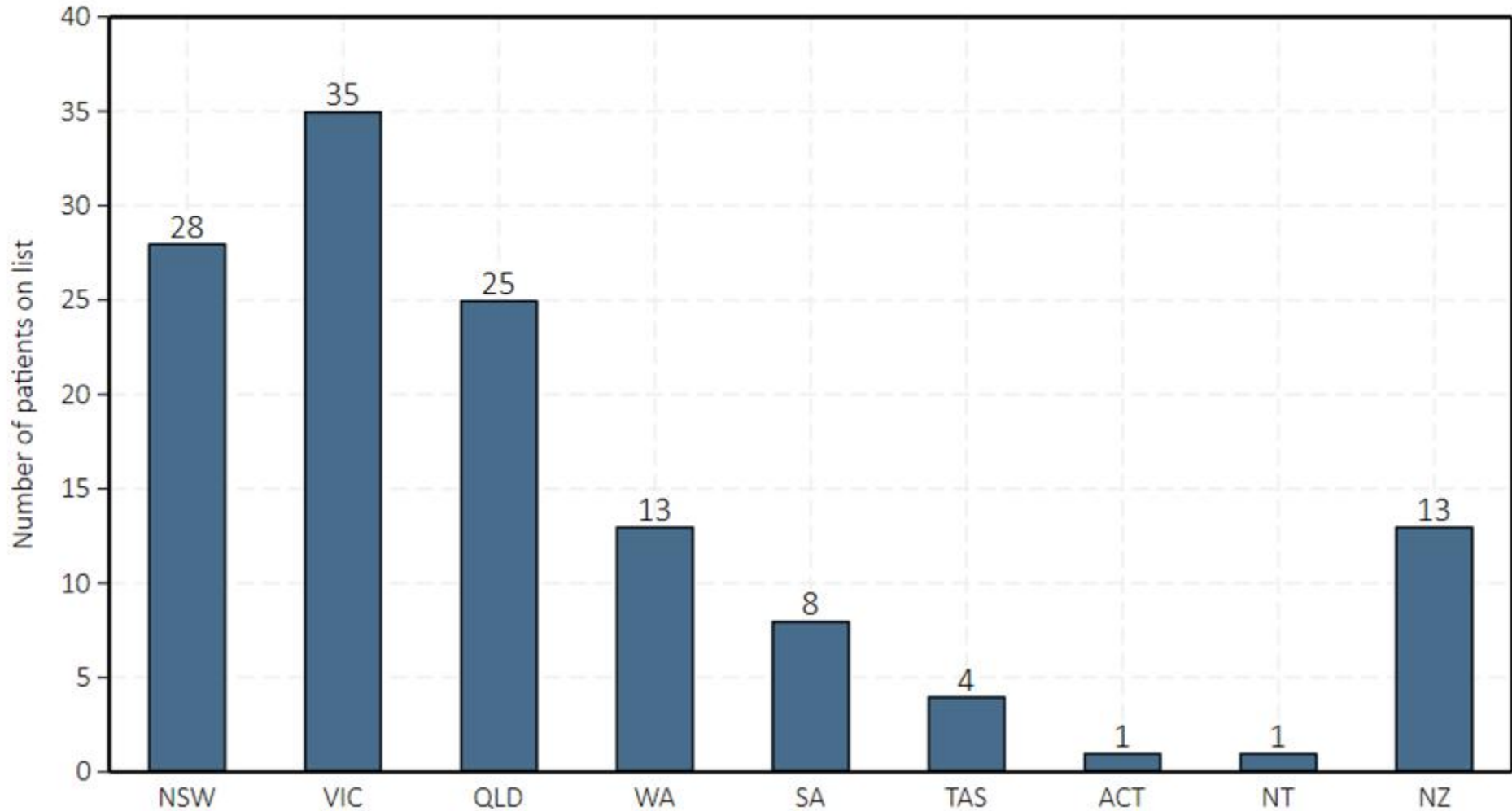
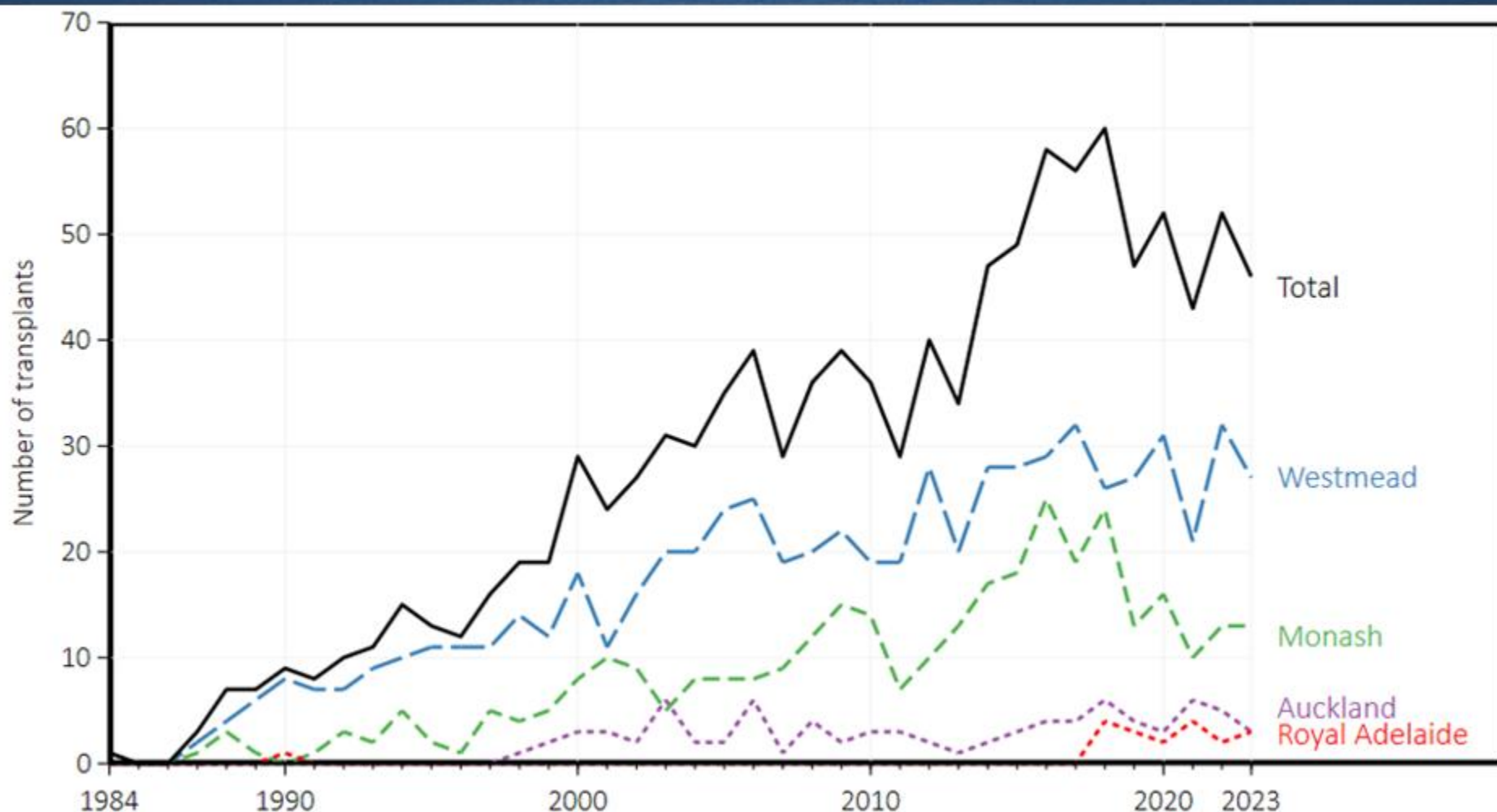


Figure 2.1

Pancreas transplants by hospital, 1984-2023



Note: There have been six pancreas transplants performed in Australia, which were not conducted by either Westmead, Monash, or Royal Adelaide. These occurred in 1988, 1990, 2005, and 2017, and two in 2021.

Figure 2.2

Pancreas transplants by type over time

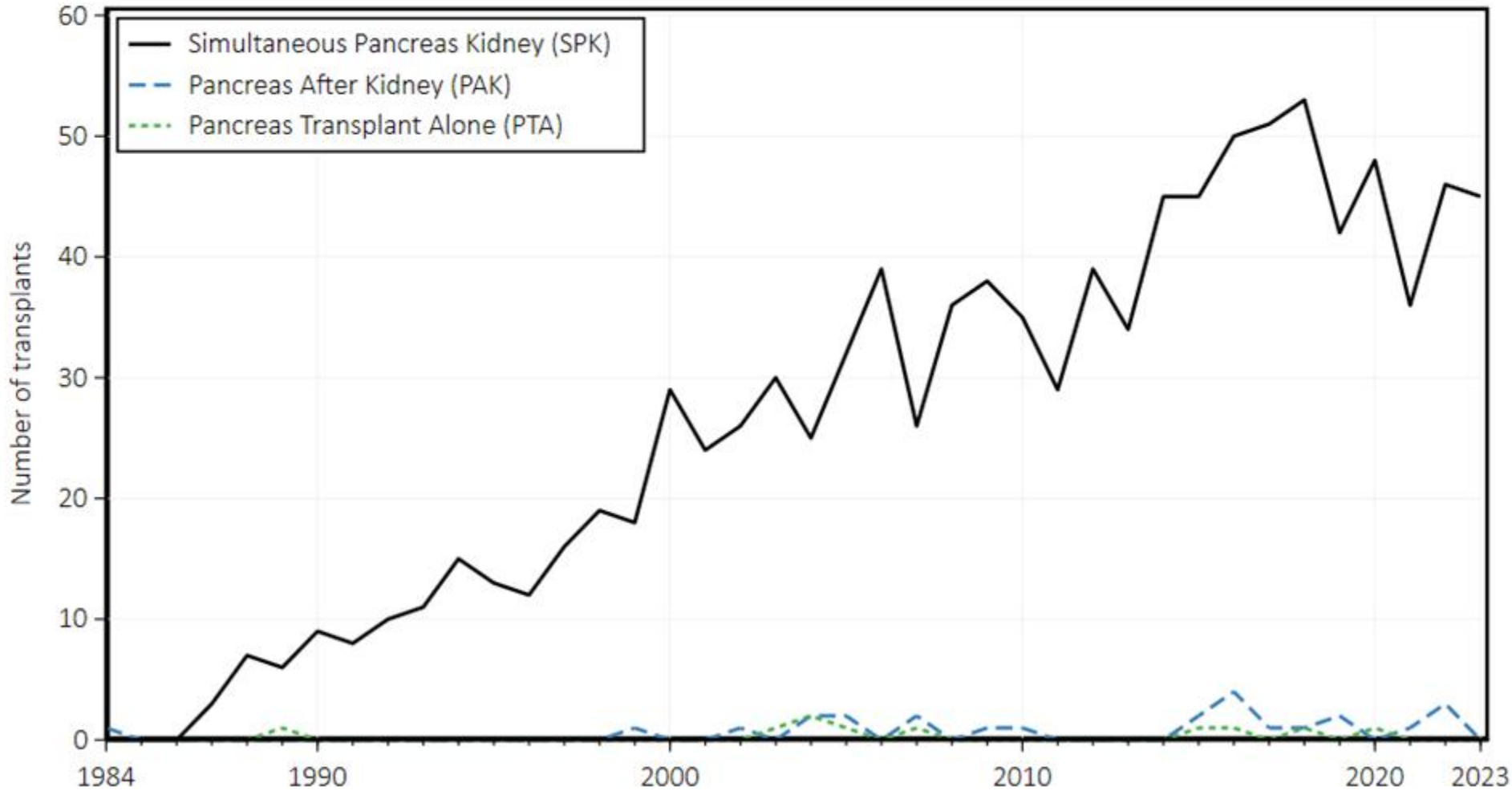


Table 2.3

Demographics and characteristics of pancreas transplant recipients

Patients, n (column %)	2023	1984-2022	Total
Total, N (row %)	45 (4)	1,047 (95)	1,092 (100)
Age, median (IQR)	38 (35, 47)	39 (33, 44)	39 (34, 44.5)
15-34	11 (24)	312 (29)	323 (29)
35-44	19 (42)	479 (45)	498 (45)
45-49	5 (11)	173 (16)	178 (16)
50+	10 (22)	83 (7)	93 (8)
Sex			
Female	20 (44)	484 (46)	504 (46)
Male	25 (55)	563 (53)	588 (53)
Cause of kidney failure			
Diabetes type 1	45 (100)	574 (54)	619 (56)
Diabetes type 2	0 (0)	2 (<1)	2 (<1)
Haemolytic uraemic syndrome	0 (0)	1 (<1)	1 (<1)
Interstitial nephritis	0 (0)	1 (<1)	1 (<1)
Wegener's granulomatosis	0 (0)	1 (<1)	1 (<1)
Focal segmental glomerulosclerosis	0 (0)	1 (<1)	1 (<1)
No kidney disease	0 (0)	20 (1)	20 (1)
Not reported	0 (0)	447 (42)	447 (40)

Table 2.3 (continued)

Demographics and characteristics of pancreas transplant recipients

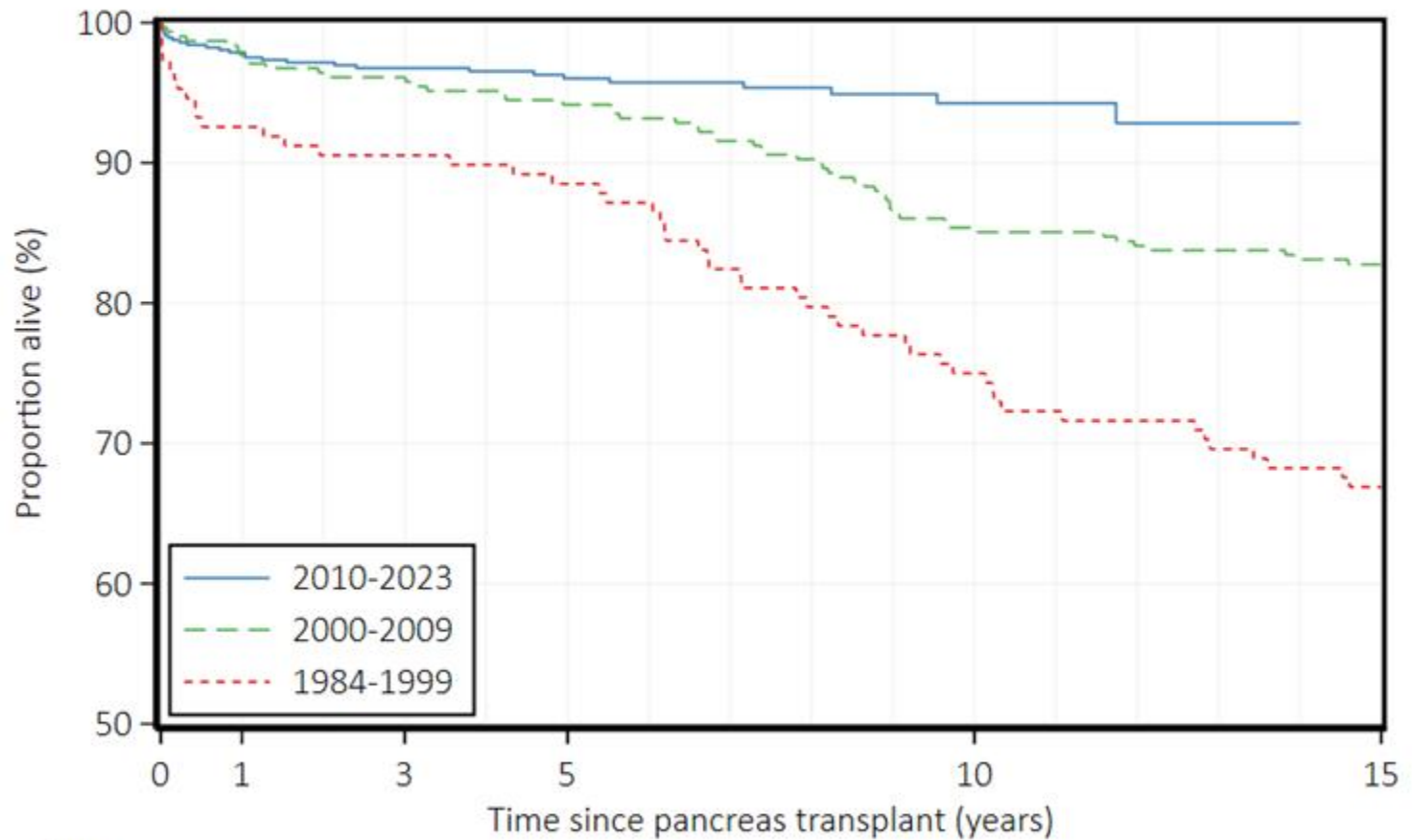
Patients, n (column %)	2023	1984-2022	Total
Ethnicity¹			
Aboriginal & Torres Strait Islander	1 (2)	3 (<1)	4 (<1)
Māori	0 (0)	10 (<1)	10 (<1)
Pacific peoples	0 (0)	12 (1)	12 (1)
White	38 (84)	980 (93)	1018 (93)
North Asian	0 (0)	5 (<1)	5 (<1)
South-East Asian	0 (0)	1 (<1)	1 (<1)
Southern and Central Asian	2 (4)	21 (2)	23 (2)
North African and Middle Eastern	3 (6)	14 (1)	17 (1)
Other	0 (0)	1 (<1)	1 (<1)
Not reported	1 (2)	0 (0)	1 (<1)
Blood group			
O	13 (28)	469 (44)	482 (44)
A	20 (44)	432 (41)	452 (41)
B	10 (22)	98 (9)	108 (9)
AB	2 (4)	48 (4)	50 (4)

¹ Ethnicity classified according to the Australian Bureau of Statistics standard classification, 2nd Edition;

<http://www.abs.gov.au/AUSSTATS/abs@.nsf/DetailsPage/1249.02011>. White includes Australian, New Zealander, European, and North American.

Figure 2.4

Patient survival by era of transplantation

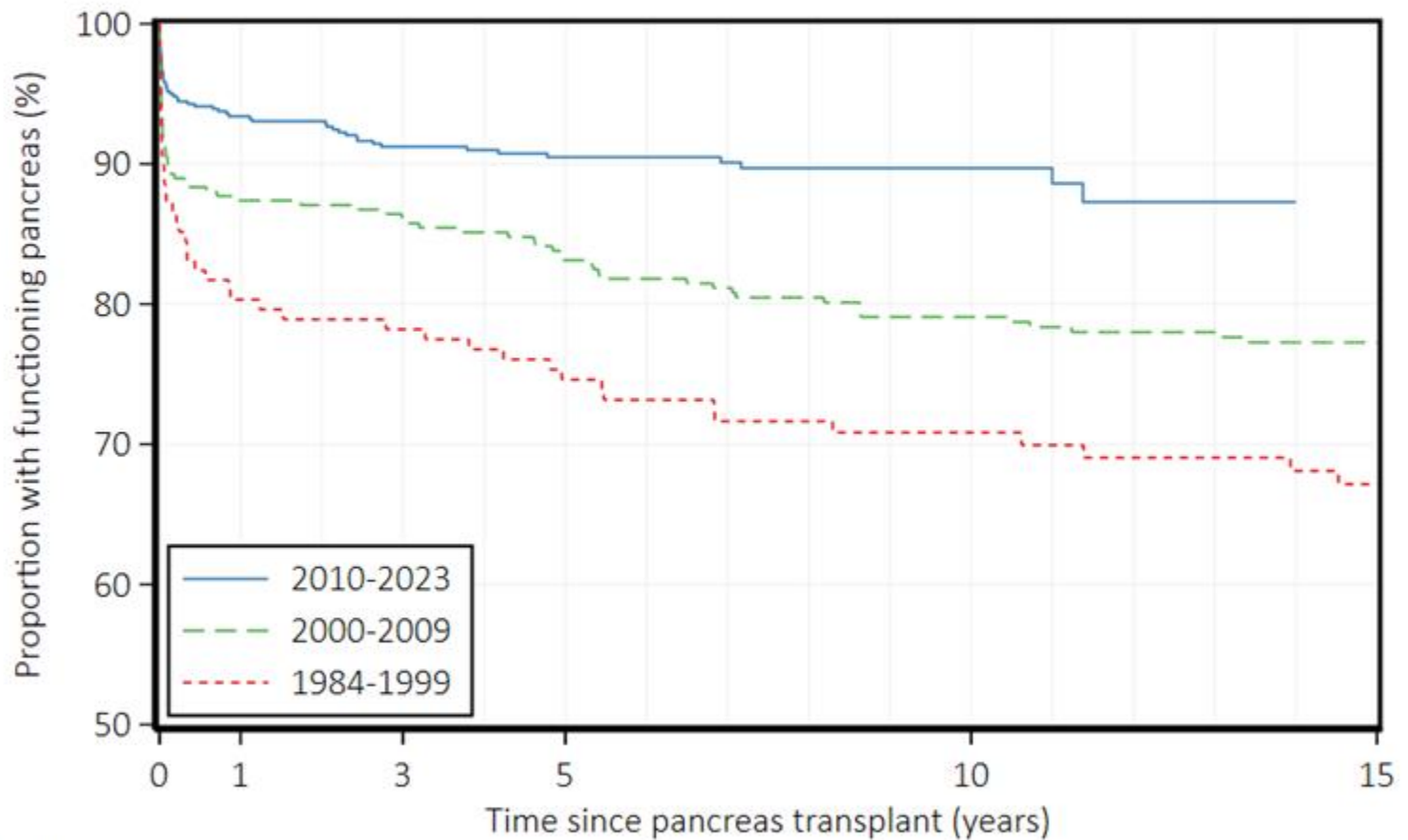


Year of transplant

2010-2023	566	554	461	367	128	0
2000-2009	308	301	296	290	262	223
1984-1999	148	137	134	131	111	99

Figure 2.8

Pancreas transplant survival by era of transplantation (censored at death)



Year of transplant

2010-2023	579	532	428	332	105	0
2000-2009	318	274	266	251	219	173
1984-1999	150	115	110	103	83	70


Table 2.7

Pancreas graft survival censored at death, by country and era

Year	Transplants	Australia				New Zealand				
		1-year		5-year		1-year		5-year		
		<i>n</i>	%	<i>n</i>	%	<i>Transplants</i>	<i>n</i>	%	<i>n</i>	%
2014-2019	278	253	93.1%	209	91.7%	23	22	95.7%	16	87.0%
2015-2020	282	264	95.4%	176	94.2%	24	24	100.0%	15	91.7%
2016-2021	271	256	96.3%	135	95.4%	27	26	96.3%	13	91.9%
2017-2022	264	252	97.0%	88	96.6%	28	27	96.4%	10	96.4%
2018-2023	257	209	96.8%	46	96.8%	27	23	96.3%	6	96.3%

Table 2.8

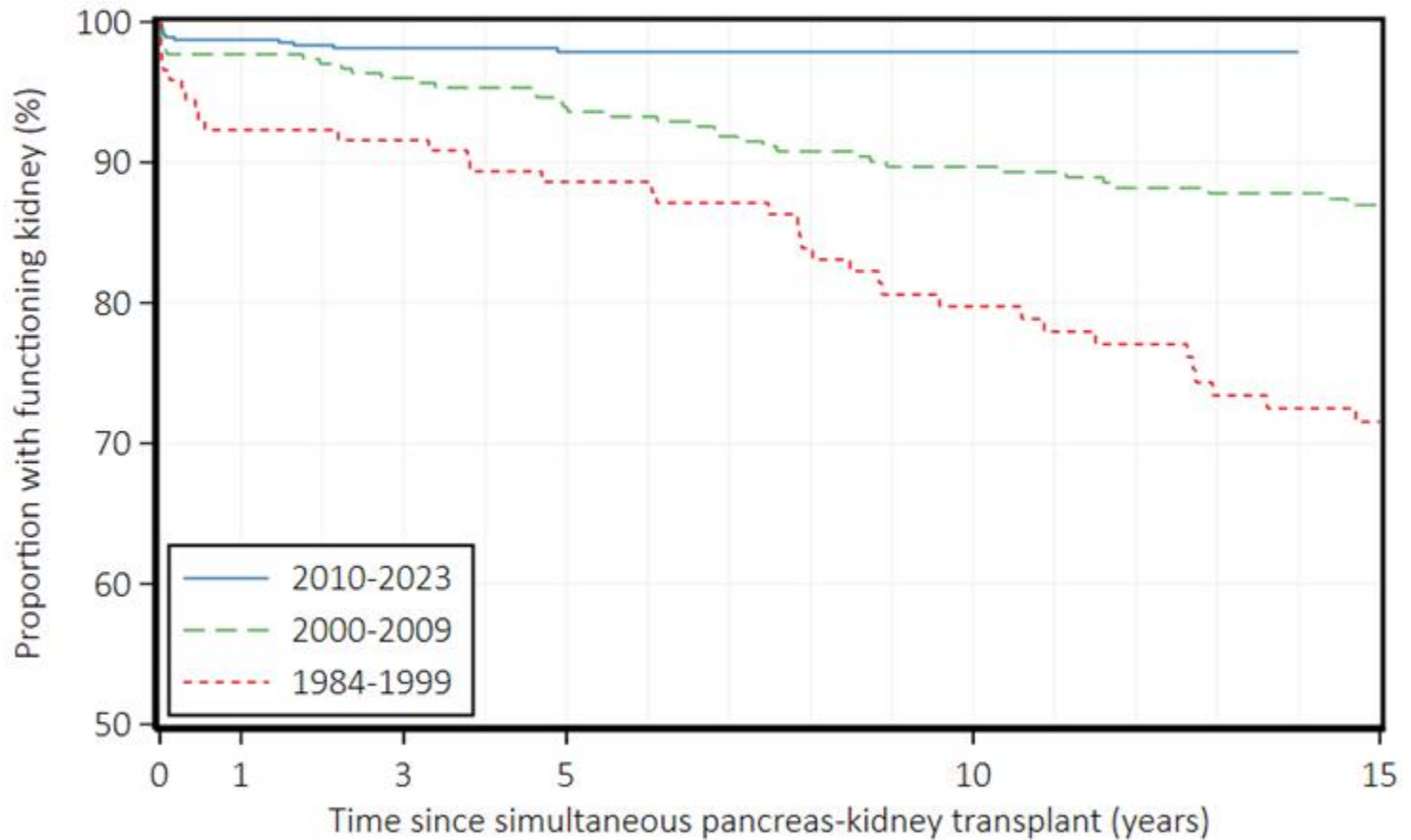
People alive with a functioning pancreas by year and residence



Location	2019	2020	2021	2022	2023
Australia	594	640	677	722	761
New South Wales	162	178	189	200	208
Victoria	184	198	208	216	225
Queensland	124	134	145	162	172
Western Australia	31	34	35	39	45
South Australia	49	52	56	58	60
Tasmania	28	28	28	31	33
Australian Capital Territory	12	12	12	12	14
Northern Territory	4	4	4	4	4
New Zealand	47	48	53	57	59
Total	641	688	730	779	820

Figure 2.14

SPK kidney survival by era of transplantation (censored at death)




Year of transplant

2010-2023	553	537	449	356	123	0
2000-2009	305	293	283	272	238	193
1984-1999	147	129	125	119	93	75

Table 3.1

Demographics and characteristics of pancreas donors



	Donors, n (column %)		
	2023	1984-2022	Overall
Total (row %)	45 (4)	1,047 (96)	1,092 (100)
Age			
0-24	19 (42)	499 (48)	518 (47)
25-34	14 (31)	284 (27)	298 (27)
35-44	9 (20)	215 (21)	224 (21)
45+	2 (4)	35 (3)	37 (3)
Not reported	1 (2)	14 (1)	15 (1)
Sex			
Female	22 (49)	576 (55)	598 (55)
Male	22 (49)	460 (44)	482 (44)
Not reported	1 (2)	11 (1)	12 (1)
BMI (kg/m²)			
Underweight/Normal (<24.9)	30 (67)	669 (64)	699 (64)
Overweight (25-29.9)	9 (20)	317 (30)	326 (30)
Obese (30+)	3 (7)	42 (4)	45 (4)
Not reported	3 (7)	19 (2)	22 (2)


Table 3.1 (continued)

Demographics and characteristics of pancreas donors

	Donors, n (column %)		
	2023	1984-2022	Overall
Pathway			
Brain death (DBD)	42 (93)	1,019 (97)	1,061 (97)
Circulatory death (DCD)	2 (4)	25 (2)	27 (2)
Not reported	1 (2)	3 (<1)	4 (<1)
Mode of death			
Cerebral hypoxia/ischaemia	19 (42)	178 (17)	197 (18)
Cerebral infarct	1 (2)	21 (2)	22 (2)
Intracranial haemorrhage	9 (20)	266 (25)	275 (25)
Non-neurological condition	0 (0)	195 (19)	195 (18)
Other neurological condition	1 (2)	22 (2)	23 (2)
Traumatic brain injury	13 (29)	350 (33)	363 (33)
Not reported	2 (4)	15 (1)	17 (2)
Blood group			
O	14 (31)	508 (49)	522 (48)
A	22 (49)	410 (39)	432 (40)
B	7 (16)	98 (9)	105 (10)
AB	1 (2)	26 (2)	27 (2)
Not reported	1 (2)	5 (<1)	6 (<1)

Table 3.1 (continued)


Demographics and characteristics of pancreas donors



	Donors, n (column %)		
	2023	1984-2022	Overall
Alcohol consumption			
Never	32 (71)	766 (73)	798 (73)
Former	0 (0)	10 (<1)	10 (<1)
Current	10 (22)	94 (9)	104 (10)
Not reported	3 (7)	177 (17)	180 (16)
Smoking history			
Never	30 (67)	621 (59)	651 (60)
Former	4 (9)	45 (4)	49 (4)
Current	8 (18)	264 (25)	272 (25)
Not reported	3 (7)	117 (11)	120 (11)
Kidney biopsy			
Not performed	13 (29)	759 (72)	772 (71)
Performed	24 (53)	250 (24)	274 (25)
Not reported	8 (18)	38 (4)	46 (4)

Table 3.1 (continued)

Demographics and characteristics of pancreas donors



	Donors, n (column %)		
	2023	1984-2022	Overall
Cytomegalovirus (CMV)			
Positive	32 (71)	645 (62)	677 (62)
Negative	11 (24)	353 (34)	364 (33)
Not reported	2 (4)	49 (5)	51 (5)
Epstein-Barr virus (EBV)			
Positive	37 (82)	646 (62)	683 (63)
Negative	3 (7)	94 (9)	97 (9)
Not reported	5 (11)	307 (29)	312 (29)

Table 3.3 (continued)

Australian pancreas transplants by donor and recipient state, all years



Donor state, n (row %)

Recipient state	NSW	VIC	QLD	WA	SA	TAS	ACT	NT	Not reported	Total
1984-2023	367	283	110	75	92	32	44	3	1	1,007
NSW	175	15	38	23	24	5	20	0	0	300
VIC	24	214	4	6	9	21	3	0	1	282
QLD	92	12	45	22	26	0	13	1	0	211
WA	25	5	16	15	5	1	3	0	0	70
SA	18	21	3	5	23	1	5	2	0	78
TAS	16	15	1	0	1	4	0	0	0	37
ACT	16	1	3	2	3	0	0	0	0	25
NT	1	0	0	2	1	0	0	0	0	4